

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|
| - | 75793 | 400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls. | USPAT; US-PGPUB | 2003/04/02 09:37 |
| - | 388683 | vibrating or vibration or agitate or agitating or oscillate or oscillating or oscillated or vibrated or agitated | USPAT; US-PGPUB | 2003/04/01 16:30 |
| - | 1509 | (vibrating or vibration or agitate or agitating or oscillate or oscillating or oscillated or vibrated or agitated) near4 (transport or transporting or transportation or feed or feeding or drive) near1 (roll or roller or means or section or unit or portion) | USPAT; US-PGPUB | 2003/04/01 16:35 |
| - | 93 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and ((vibrating or vibration or agitate or agitating or oscillate or oscillating or oscillated or vibrated or agitated) near4 (transport or transporting or transportation or feed or feeding or drive) near1 (roll or roller or means or section or unit or portion)) | USPAT; US-PGPUB | 2003/04/02 07:46 |
| - | 6 | ("5000594" "5085423" "5094444" "5140214" "5153738" "5176376").PN. | USPAT | 2003/04/01 16:55 |
| - | 2 | 5464291.URPN. | USPAT | 2003/04/01 16:56 |
| - | 1 | gb-2218047-\$.did. | EPO; JPO; DERWENT | 2003/04/01 16:58 |
| - | 2 | jp-03093481-\$.did. | EPO; JPO; DERWENT | 2003/04/01 16:59 |
| - | 2 | jp-03008670-\$.did. | EPO; JPO; DERWENT | 2003/04/01 17:00 |
| - | 0 | jp-0302078-\$.did. | EPO; JPO; DERWENT | 2003/04/01 17:00 |
| - | 1 | jp-63302078-\$.did. | EPO; JPO; DERWENT | 2003/04/01 17:00 |
| - | 1 | jp-63308670-\$.did. | EPO; JPO; DERWENT | 2003/04/01 17:01 |
| - | 1 | jp-63212571-\$.did. | EPO; JPO; DERWENT | 2003/04/01 17:01 |
| - | 1 | 10/058,411 | USPAT; US-PGPUB | 2003/04/02 07:59 |
| - | 75793 | 400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls. | USPAT; US-PGPUB | 2003/04/02 07:59 |
| - | 240 | solenoid with pressure near1 plate | USPAT; US-PGPUB | 2003/04/02 07:59 |
| - | 18 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (solenoid with pressure near1 plate) | USPAT; US-PGPUB | 2003/04/02 08:17 |
| - | 16254 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) | USPAT; US-PGPUB | 2003/04/02 08:42 |
| - | 51011 | (pinch or nip or pressure) near1 (roll or roller) | USPAT; US-PGPUB | 2003/04/02 08:18 |
| - | 2911 | (pinch or nip or pressure) near1 (roll or roller) near4 (arm or lever or holder) | USPAT; US-PGPUB | 2003/04/02 08:18 |
| - | 151 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and ((pinch or nip or pressure) near1 (roll or roller) near4 (arm or lever or holder)) | USPAT; US-PGPUB | 2003/04/02 08:32 |
| - | 324 | (feed or feeding or transportation or transporting or drive) near1 (roll or roller) near4 encoder | USPAT; US-PGPUB | 2003/04/02 08:41 |
| - | 93 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and ((feed or feeding or transportation or transporting or drive) near1 (roll or roller) near4 encoder) | USPAT; US-PGPUB | 2003/04/02 08:33 |
| - | 24106 | (adjust\$ or correct or corrected or correcting or correction) near2 (roll or roller) | USPAT; US-PGPUB | 2003/04/02 08:53 |
| - | 10 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and ((feed or feeding or transportation or transporting or drive) near1 (roll or roller) near4 encoder)) and ((adjust\$ or correct or corrected or correcting or correction) near2 (roll or roller)) | USPAT; US-PGPUB | 2003/04/02 08:38 |
| - | 2 | ep-680829-\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/04/02 08:38 |
| - | 1119 | (feed or feeding or transportation or transporting or drive) near1 (roll or roller) and encoder near6 (roll or roller) | USPAT; US-PGPUB | 2003/04/02 08:42 |

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| - | 102 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and ((feed or feeding or transportation or transporting or drive) near1 (roll or roller) and encoder near6 (roll or roller)) | USPAT; US-PGPUB | 2003/04/02 08:42 |
| - | 1513749 | adjust\$ or correct or corrected or correcting or correction | USPAT; US-PGPUB | 2003/04/02 08:53 |
| - | 75 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and ((feed or feeding or transportation or transporting or drive) near1 (roll or roller) and encoder near6 (roll or roller))) and (adjust\$ or correct or corrected or correcting or correction) | USPAT; US-PGPUB | 2003/04/02 09:19 |
| - | 104 | (b41j\$.ipc. or b41j\$.epc.) and (roll or roller) near4 (encoder) | EPO; JPO; DERWENT | 2003/04/02 09:20 |
| - | 120659 | (adjust\$ or correct\$) near2 (position\$) | EPO; JPO; DERWENT | 2003/04/02 09:20 |
| - | 2 | ((b41j\$.ipc. or b41j\$.epc.) and (roll or roller) near4 (encoder)) and ((adjust\$ or correct\$) near2 (position\$)) | EPO; JPO; DERWENT | 2003/04/02 09:20 |
| - | 16254 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) | USPAT; US-PGPUB | 2003/04/02 09:37 |
| - | 1728 | (roll or roller) near4 (encoder) | USPAT; US-PGPUB | 2003/04/02 09:37 |
| - | 4208 | bubble with (inkjet or ink adj jet) | USPAT; US-PGPUB | 2003/04/02 09:38 |
| - | 9 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and ((roll or roller) near4 (encoder)) and (bubble with (inkjet or ink adj jet)) | USPAT; US-PGPUB | 2003/04/02 09:38 |
| - | 3155 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and (bubble with (inkjet or ink adj jet)) | USPAT; US-PGPUB | 2003/04/02 09:38 |
| - | 250551 | vibrat\$ | USPAT; US-PGPUB | 2003/04/02 11:27 |
| - | 41391 | (head or printhead or cartridge).ti. | USPAT; US-PGPUB | 2003/04/02 09:39 |
| - | 508 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and (bubble with (inkjet or ink adj jet))) and vibrat\$ not ((head or printhead or cartridge).ti.) | USPAT; US-PGPUB | 2003/04/02 09:39 |
| - | 4776 | vibrat\$ near2 (roll or roll or transport\$ or feed or feeding) | USPAT; US-PGPUB | 2003/04/02 09:39 |
| - | 3 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and (bubble with (inkjet or ink adj jet))) and vibrat\$ not ((head or printhead or cartridge).ti.) and (vibrat\$ near2 (roll or roll or transport\$ or feed or feeding)) | USPAT; US-PGPUB | 2003/04/02 10:05 |
| - | 1 | ("5464291").PN. | USPAT; US-PGPUB | 2003/04/02 10:19 |
| - | 1 | ("5451643").PN. | USPAT; US-PGPUB | 2003/04/02 10:19 |
| - | 1 | ("5451043").PN. | USPAT; US-PGPUB | 2003/04/02 10:49 |
| - | 1 | ("5620174").PN. | USPAT; US-PGPUB | 2003/04/02 10:22 |
| - | 1 | ("5672019").PN. | USPAT; US-PGPUB | 2003/04/02 10:22 |
| - | 1 | ("6092893").PN. | USPAT; US-PGPUB | 2003/04/02 10:24 |
| - | 1 | ("6168270").PN. | USPAT; US-PGPUB | 2003/04/02 10:24 |
| - | 1 | ("5947465").PN. | USPAT; US-PGPUB | 2003/04/02 10:49 |
| - | 0 | jp-07081786-\$.did. | USPAT; US-PGPUB; | 2003/04/02 10:50 |
| - | 0 | jp-07081766-\$.did. | EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/04/02 10:50 |

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| - | 0 | jp-07817660-\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/04/02 10:50 |
| - | 0 | jp-07817860-\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/04/02 10:51 |
| - | 0 | (b41j4.ipc. or b41j\$.epc.) and vibrat\$ near4 (feed or feeding or transport\$) | EPO; JPO; DERWENT | 2003/04/02 10:52 |
| - | 863386 | near1 (roll or roller or unit or means or section) roll or roller | EPO; JPO; DERWENT | 2003/04/02 10:53 |
| - | 8 | ((b41j4.ipc. or b41j\$.epc.) and vibrat\$) and (roll or roller) | EPO; JPO; DERWENT | 2003/04/02 10:53 |
| - | 254 | (b41j4.ipc. or b41j\$.epc.) and vibrat\$ | EPO; JPO; DERWENT | 2003/04/02 10:57 |
| - | 116 | ((b41j4.ipc. or b41j\$.epc.) and vibrat\$) not (head or printhead).ti. | EPO; JPO; DERWENT | 2003/04/02 10:58 |
| - | 9473 | vibrat\$ with (roll or roller or (feed\$ or transport\$) near1 (section or mean or unit)) | USPAT; US-PGPUB | 2003/04/02 11:35 |
| - | 101 | ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet)) and (vibrat\$ with (roll or roller or (feed\$ or transport\$) near1 (section or mean or unit))) | USPAT; US-PGPUB | 2003/04/02 11:53 |
| - | 2 | jp-08108927-\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/04/02 12:32 |
| - | 1 | ("6435641").PN. | USPAT; US-PGPUB | 2003/04/02 14:00 |
| - | 31 | merz-eric\$.in. | USPAT; US-PGPUB | 2003/04/02 14:01 |
| - | 75793 | 400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls. | USPAT; US-PGPUB | 2003/04/02 15:18 |
| - | 33198 | inkjet or ink adj jet | USPAT; US-PGPUB | 2003/04/02 15:18 |
| - | 22 | (scan or scanning or scanned) near2 (without) near1 (printing) | USPAT; US-PGPUB | 2003/04/02 15:31 |
| - | 13 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) and ((scan or scanning or scanned) near2 (without) near1 (printing)) | USPAT; US-PGPUB | 2003/04/02 15:31 |
| - | 10 | (scan or scanning or scanned) near2 (without) near1 (printing) | EPO; JPO; DERWENT; IBM_TDB | 2003/04/02 15:33 |
| - | 78 | (traverse traversed traversing moving or move or transport\$ or scanning or scanned or scan) near1 (without) adj (printing or recording or printed or recorded) | USPAT; US-PGPUB | 2003/04/02 15:46 |
| - | 72 | ((traverse traversed traversing moving or move or transport\$ or scanning or scanned or scan) near1 (without) adj (printing or recording or printed or recorded)) not ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) and ((scan or scanning or scanned) near2 (without) near1 (printing))) | USPAT; US-PGPUB | 2003/04/02 15:35 |
| - | 17 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) and (((traverse traversed traversing moving or move or transport\$ or scanning or scanned or scan) near1 (without) adj (printing or recording or printed or recorded)) not ((400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) and ((scan or scanning or scanned) near2 (without) near1 (printing)))) | USPAT; US-PGPUB | 2003/04/02 15:35 |
| - | 2642 | vibrat\$ near2 (roll or roller) | USPAT; US-PGPUB | 2003/04/02 15:46 |
| - | 21 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) and (vibrat\$ near2 (roll or roller)) | USPAT; US-PGPUB | 2003/04/02 15:54 |
| - | 567 | carriage near2 vibrat\$ | USPAT; US-PGPUB | 2003/04/02 16:00 |
| - | 128 | (400/\$.ccls. or 347/\$.ccls. or 271/\$.ccls.) and (inkjet or ink adj jet) and (carriage near2 vibrat\$) | USPAT; US-PGPUB | 2003/04/02 16:01 |
| - | 23151 | b41j\$.ipc. or b41j\$.epc. | USPAT; US-PGPUB | 2003/04/02 16:01 |

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| - | 250551 | vibrat\$ | USPAT; US-PGPUB | 2003/04/02 16:01 |
| - | 361412 | vibrat\$ | EPO; JPO; DERWENT | 2003/04/02 16:01 |
| - | 290354 | b41j\$.ipc. or b41j\$.epc. | EPO; JPO; DERWENT | 2003/04/02 16:02 |
| - | 6621 | vibrat\$ and (b41j\$.ipc. or b41j\$.epc.) | EPO; JPO; DERWENT | 2003/04/02 16:02 |
| - | 163962 | inkjet or ink adj jet or b41j002/\$.ipc. or b41j002/\$.epc. | EPO; JPO; DERWENT | 2003/04/02 16:02 |
| - | 4501 | (vibrat\$ and (b41j\$.ipc. or b41j\$.epc.)) and (inkjet or ink adj jet or b41j002/\$.ipc. or b41j002/\$.epc.) | EPO; JPO; DERWENT | 2003/04/02 16:10 |
| - | 39439 | vibrat\$ near4 (carriage or roll or roller or feeding or feed or driving or drive or motor) | EPO; JPO; DERWENT | 2003/04/02 16:11 |
| - | 576 | ((vibrat\$ and (b41j\$.ipc. or b41j\$.epc.)) and (inkjet or ink adj jet or b41j002/\$.ipc. or b41j002/\$.epc.)) and (vibrat\$ near4 (carriage or roll or roller or feeding or feed or driving or drive or motor)) | EPO; JPO; DERWENT | 2003/04/02 16:12 |
| - | 298456 | head.ti. or printhead.ti. | EPO; JPO; DERWENT | 2003/04/02 16:12 |
| - | 372 | ((vibrat\$ and (b41j\$.ipc. or b41j\$.epc.)) and (inkjet or ink adj jet or b41j002/\$.ipc. or b41j002/\$.epc.)) and (vibrat\$ near4 (carriage or roll or roller or feeding or feed or driving or drive or motor))) not (head.ti. or printhead.ti.) | EPO; JPO; DERWENT | 2003/04/02 16:21 |
| - | 1 | cleaning near1 (nozzle or head or printhead) near1 before near1 (printing or recording) | EPO; JPO; DERWENT | 2003/04/02 16:22 |
| - | 2 | (cleaning or recovery near1 statino or cleaned or clean or capping) near1 (nozzle or head or printhead) near1 before near1 (printing or recording) | EPO; JPO; DERWENT | 2003/04/02 16:29 |
| - | 1 | ("6152626").PN. | USPAT; US-PGPUB | 2003/04/02 16:23 |
| - | 341 | (cleaning or recovery near1 statino or cleaned or clean or capping) near1 (nozzle or head or printhead) near2 (printing or recording) | EPO; JPO; DERWENT | 2003/04/02 16:30 |
| - | 341 | (cleaning or recovery near1 station cleaned or clean or capping) near1 (nozzle or head or printhead) near2 (printing or recording) | EPO; JPO; DERWENT | 2003/04/02 16:31 |
| - | 40 | (move or moving or moved or transport or transporting or transported) near1 (carriage or head or printhead) and (cleaning or recovery near1 station cleaned or clean or capping) near1 (nozzle or head or printhead) near2 (printing or recording) | EPO; JPO; DERWENT | 2003/04/02 16:34 |
| - | 5955 | first near2 (clean or cleaning or cap or capped or capping or recovery or recovering) | EPO; JPO; DERWENT | 2003/04/02 16:33 |
| - | 161 | (b41j\$.ipc. or b41j\$.epc.) and (first near2 (clean or cleaning or cap or capped or capping or recovery or recovering)) | EPO; JPO; DERWENT | 2003/04/02 16:34 |